

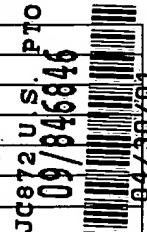
Please type a plus sign (+) inside this box →

Approved for use through 10/31/2002. OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for Form 1449A/PTO				Complete If Known	
				Application Number	TBD
				Filing Date	04/30/2001
				First Named Inventor	Carl M. Panasik, Et al.
				Group Art Unit	TBD
				Examiner Name	TBD
Sheet	1	of	2	Attorney Docket No.	TI-32885



INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

U.S. PATENT DOCUMENTS					
Exam. Initials +*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Doc.	Date of Pub. of Cited Doc. (mm-dd-yyyy)
		Number	Kind Code ² (if known)		
JP	AA	5,815,102		John Melanson	09/29/1998
JP	AB	5,952,947		Nussbaum, et al.	09/14/1999
JP	AC	5,920,273		Masamitsu Hirano	07/06/1999
JP	AD	5,815,102		John Melanson	09/29/1998
JP	AE	5,786,779		Phil-Seong Chun, et al.	07/28/1998
JP	AF	5,712,635		James Wilson, et al.	07/28/1998
JP	AG	5,701,106		Julia Pikkalainen, et al.	12/23/1997
JP	AH	5,313,205		James Wilson	05/17/1994
JP	AI	5,079,551		Shigenobu Kimura, et al.	01/07/1992
JP	AJ	4,901,077		Todd J. Christopher	02/13/1990
	AK				
	AL				
	AM				
	AN				
	AO				

FOREIGN PATENT DOCUMENTS					
Exam. Initials*	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Doc.	Date of Pub. of Cited Doc. (mm-dd-yyyy)
		Office ³	Number ⁴		
	BA				
	BB				
	BC				
	BD				
	BE				
	BF				
	BG				
	BH				
	BI				
	BJ				
	BK				
	BL				

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231

Please type a plus sign (+) inside this box →



Approved for use through 10/31/2002. OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for Form 1449A/PTO				Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	TBD
(use as many sheets as necessary)				Filing Date	04/30/2001
Sheet	2	of	2	First Named Inventor	Carl M. Panasik, Et al.
				Group Art Unit	TBD
				Examiner Name	TBD
				Attorney Docket No.	
				TI-32885	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Exam. Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
JP	CA	"A Second-Order Double-Sampled Delta-Sigma Modulator Using Individual-Level Averaging", Chuc K. Thanh, et al., 1997 IEEE Journal of Solid-State Circuits, Vol. 32, No. 8, 08/1997, pp. 1269-1273	
	CB		
	CC		
	CD		
	CE		
	CF		
	CG		
	CH		
	CI		
	CJ		
	CK		
	CL		
	CM		
	CN		
	CO		
	CP		
	CQ		
	CR		

Examiner Signature		Date Considered	8/10/04
-----------------------	---	--------------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²Applicant is to place a check mark here if English Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Please type a plus sign (+) inside this box



PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for Form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete If Known	
Sheet	1	of	2	Application Number	09/846,846
				Filing Date	04/30/2001
				First Named Inventor	Carl M. Panasik, et al.
				Group Art Unit	2817
				Examiner Name	TBD
				Attorney Docket No.	TI-32885

U.S. PATENT DOCUMENTS						
Exam. Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Doc.	Date of Pub. of Cited Doc. (mm-dd-yyyy)	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
AA						
AB						
AC						
AD						
AE						
AF						
AG						
AH						
AI						
AJ						
AK						
AL						
AM						
AN						
AO						

FOREIGN PATENT DOCUMENTS								
Exam. Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Doc.	Date of Pub. of Cited Doc. (mm-dd-yyyy)	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ² (if known)				
JP	BA	EP 0 597 123 A1			Matsushita Electric Ind Co Ltd	18/05/1994		
JP	BB	EP 1 001 538 A2			Bosch GMBH Robert	17/95/2000		
	BC							
	BD							
	BE							
	BF							
	BG							
	BH							
	BI							
	BJ							
	BK							
	BL							

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, VA 22313-1450.

RECEIVED
TECHNOLOGY CENTER 2800
JAN 15 2004

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Please type a plus sign (+) inside this box 

Substitute for Form 1449A/PTO
**INFORMATION DISCLOSURE
 STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet **2** of **2****Complete If Known**

Application Number	09/846,846
Filing Date	04/30/2001
First Named Inventor	Carl M. Panasik, et al.
Group Art Unit	2817
Examiner Name	TBD
Attorney Docket No.	TI-32885

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Exam. Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
JP	CA	"Galton I: Delta Sigma Data Conversion In Wireless Tranceivers", IEEE Transactions on Microwave Theory and Techniques, IEEE Inc. New York, US, Vol. 50, No. 1, Part 2, 01/2002, pp. 302-315, XP001085552, ISSN: 0018-9480	
JP	CB	Patent Abstracts of Japan, Vol. 1997, No. 11, 28/11/1997 & JP 09 185379A (Sony Corp), 15/07/1997	
JP	CC	Patent Abstracts of Japan, Vol. 008, No. 115 (E-247), 29/05/1984 & JP 59 030324A (Hitachi Seisakusho KK), 17/02/1984	
	CD		
	CE		
	CF		
	CG		
	CH		
	CI		
	CJ		
	CK		
	CL		
	CM		
	CN		
	CO		
	CP		
	CQ		
	CR		

Examiner Signature	<i>jmrl</i>	Date Considered	<i>8/10/04</i>
--------------------	-------------	-----------------	----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²Applicant is to place a check mark here if English Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, VA 22313-1450.

RECEIVED
 JAN 15 2004
 TECHNOLOGY CENTER 2800